

0074737

**SAF-RC-006**  
**100-N Ancillary Facilities & 190-DR Other**  
**Solid Sampling for ERDF Waste**  
**Designation**  
**FINAL DATA PACKAGE**

COMPLETE COPY OF DATA PACKAGE TO:

James Crocker X5-50

KW 12/6/2007  
INITIAL/DATE

Amy Hood X5-50

KW 12/6/2007  
INITIAL/DATE

Tom Edmundson X5-50

KW 12/6/2007  
INITIAL/DATE

**RECEIVED**  
DEC 17 2007  
**EDMC**

COMMENTS:

**SDG 07-A-6753**

**SAF-RC-006**

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

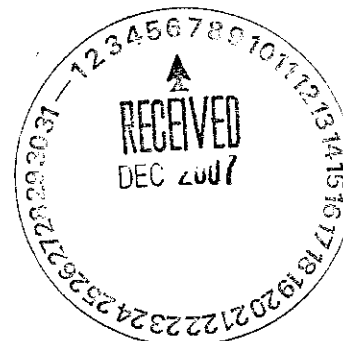
**Waste Site(s): 107-N Sodium Hydroxide Tank & Piping (Chem. Annex)**



12/5/07  
Page 1 of 3

**SUBMITTED TO:**


Joan Kessner  
Washington Closure Hanford  
2620 Fermi Avenue, MSIN H4-21  
Richland, WA 99354




**REFERENCE DATA:**

Client Sample No.:	J16293 through J16297
P.O. No.:	Not Available
Sample Location:	107-N Sodium Hydroxide Tank & Piping (Chem. Annex)
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-6753
DCL Sample ID No.:	07-39521 through 07-39525
Sample Receipt Date:	11/28/07
Analysis Date:	12/5/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy\*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.

  
Shawn Smythe  
Analyst

  
Anna Marie Ristich  
Reviewer

\*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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12/5/07

**DataChem Laboratories**  
**Polarized Light Microscopy**  
**Asbestos Analytical Report**


Client: Washington Closure Hanford  
Location: 107-N Sodium Hydroxide Tank & Piping (Chem. Annex)  
Set ID: 07-A-6753

Client Sample ID:	J16293	J16294	J16295	J16296	J16297
DCL Sample ID:	07-39521	07-39522	07-39523	07-39524	07-39525
<b>Macroscopic Examination</b>					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Homog.
	Inseparable	Inseparable	Inseparable	Inseparable	
Color:	Yellow/Black	Yellow/Black	Yellow/Black	Black/Yellow	Yellow
Texture:	Fbrs/Resns	Fbrs/Resns	Fbrs/Resns	Resns/Fbrs	Fibrous
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
<b>Asbestiform Minerals</b>					
% Chrysotile:		>1 ≤ 3		>1 ≤ 3	
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	>1 ≤ 3	ND	>1 ≤ 3	ND
<b>Other Materials</b>					
% Cellulose:					>3 ≤ 5
% Fiberglass:	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70	>60 ≤ 70	>90 ≤ 100
% Other Fibers:	>5 ≤ 10		>5 ≤ 10		
% Resin/Binder:	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	>10 ≤ 20	
% Non Fibrous:	>3 ≤ 5	>5 ≤ 10	>3 ≤ 5	>5 ≤ 10	

ND = None Detected    Trace = <1%

Special Prep Procedures: None.

\*Notes: P. O. #: Not Available.

  
Shawn Smythe  
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

<b>Washington Closure Hanford</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>RC-006-153</b>		Page 1 of 2	
Collector Edmundson		Company Contact James Crocker		Telephone No. 373-9733		Project Coordinator KESSNER, JH		Price Code <b>9K</b> Data Turnaround <b>7 Days</b>	
Project Designation 100-N Ancillary Facilities & 190-DR Other Solid Sampling f		Sampling Location 107-N Sodium Hydroxide Tank & Piping (Chem. Annex)			SAF No. RC-006				
Ice Chest No. <b>FED EX BOX</b>		Field Logbook No. EL-1516-12		COA R107N01000		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <b>A 080038</b>			Bill of Lading/Air Bill No. See OSCP				
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>  Potential ACM  Special Handling and/or Storage  <b>N/A</b>				Preservation		None			
				Type of Container		G/P			
				No. of Container(s)		1			
				Volume		5g			
<b>SAMPLE ANALYSIS</b>  <b>07-A-6753</b>				Asbestos-BULK-EPA					
Sample No. <b>07-</b>		Matrix *		Sample Date		Sample Time			
J16293 <b>39521</b>		OTHER SOLID		11-26-07		1052		✓	
J16294 <b>39522</b>		OTHER SOLID		11-26-07		1057		✓	
J16295 <b>39523</b>		OTHER SOLID		11-26-07		1101		✓	
J16296 <b>39524</b>		OTHER SOLID		11-26-07		1104		✓	
J16297 <b>39525</b>		OTHER SOLID		11-26-07		1110		✓	
<b>CHAIN OF POSSESSION</b>				<b>Sign/Print Names</b>				<b>SPECIAL INSTRUCTIONS</b>	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Lab Analysis, Shipping & Data Management COA- RD4MXX2F00  samples from 3728 Ref # <b>2C</b> 3728 Custodian removed samples for shipping on <b>11/27/07</b> . Sampler unavailable to relinquish  <b>11/28/07 1556</b>	
<b>3728 #2C</b>		<b>11-26-07 1630</b>		<b>3728 #2C</b>		<b>11-26-07 1630</b>			
<b>3728 #2C</b>		<b>11-27-07 1030</b>		<b>3728 #2C</b>		<b>11-27-07 1030</b>			
<b>3728 #2C</b>		<b>11-27-07 1500</b>		<b>FED EX</b>					
<b>FED EX</b>				<b>11/28/07 1556</b>					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		<b>Matrix *</b>  S=Soil SE=Sediment SO=Solid SI=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title				Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By				Date/Time	